BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Estimate for Improvements to Varadarajanagara Burial Grounds in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.

(16)

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
								Estimate Cost Rs.	1500000.00
1	KSRB 2-1.1: Earth work in surface excavation in **ordinary soil** for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1, **No. 5 / Item No. 2.1 / PWD SR 2015-16**	Cum							
			1	2.75	2.35	0.20	**1.29**	156.88	**203.00**
	Basic Rate	148.00							
	Area Weightage @ 6%	8.88							
	Total	**156.88**							
2	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, **Page No. 5 / Item No. 2.3 / PWD SR 2015-16**	Cum							
	Wall		1	9.00	1.00	1.00	9.00		
	Tank Flatform		1	1.50	1.50	1.00	2.25		
	Leveling of Burial Ground		1	50.00	27.00	0.30	405.00		
							416.25	188.68	**78538.00**
	Basic Rate	178.00							
	Area Weightage @ 6%	10.68							
	Total	**188.68**							
3	KSRB 2.8 : Providing and filling in foundation with granite/trap broken metal 100mm, and down size, with approved sand including had packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications. Specification. No. KBS, **Page No. 6 / Item No. 2.15 / PWD SR 2015-16**	Cum							
	Walls		1	9.00	1.00	0.30	2.70		
							2.70	2133.78	**5761.00**
	Basic Rate	2013.00							
	Area Weightage @ 6%	120.78							
	Total	**2133.78**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum							
	Wall		1	9.00	1.00	0.15	1.35		
			1	1.50	1.50	0.15	0.34		
	Front		1	10.00	5.00	0.15	7.50		
	Compound Wall		1	9.90	0.45	0.15	0.67		
			1	3.60	0.45	0.15	0.24		
	For Flooring								
			1	8.65	5.65	0.15	7.33		
			2	2.05	1.15	0.15	0.71		
							18.14	4976.70	**90262.00**
	Basic Rate	4695.00							
	Area Weightage @ 6%	281.70							
	Total	**4976.70**							
5	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page No. 23 / Item No. 5.6 / PWD SR 2015-16**	Cum							
	Building Centre Line		1	9.00	0.75	0.60	4.05		
	Below Ground Level for Tank Flatform		2	1.50	0.45	1.00	1.35		
			1	9.90	0.75	0.45	3.34		
			1	3.60	0.75	0.45	1.22		
							9.96	4058.74	**40410.00**
	Basic Rate	3829.00							
	Area Weightage @ 6%	229.74							
	Total	**4058.74**							
6	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.9 / PWD SR 2015-16**	Cum							
	Building Centre Line		1	9.00	0.45	0.45	1.82		
	Below Ground Level for Tank Flatform		2	1.50	0.45	1.00	1.35		
			1	9.90	0.45	0.45	2.00		
			1	3.60	0.45	0.45	0.73		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							5.91	4814.52	**28436.00**
	Basic Rate	4542.00							
	Area Weightage @ 6%	272.52							
	Total	**4814.52**							
7	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2015-16**	Cum							
	Plinth		1	9.00	0.45	0.15	0.61		
	Lintel		1	9.00	0.20	0.20	0.36		
	RCC roof slab		1	2.70	3.15	0.15	1.28		
	Concrete for Flatform		1	1.50	1.50	0.10	0.23		
			1	9.90	0.45	0.10	0.45		
			1	3.60	0.45	0.10	0.16		
			1	72.50	0.20	0.10	1.45		
							4.53	6083.34	**27532.00**
	Basic Rate	5739.00							
	Area Weightage @ 6%	344.34							
	Total	**6083.34**							
8	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications, specification. No. KBS 2.9, **Page No. 6 / Item No. 2.10 / PWD SR 2015-16**	Cum							
			Qty Vide Item No. 2				**416.25**	127.20	**52947.00**
	Basic Rate	120.00							
	Area Weightage @ 6%	7.20							
	Total	**127.20**							
9	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 25 / Item No. 5.27 / PWD SR 2015-16**	Sqm							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Long Wall		2	2.35		2.10	9.87		
	Short Wall		3	2.35		2.10	14.81		
	Compound Wall		1	9.90		1.60	15.84		
	For Flat Form		3	3.00		1.20	10.80		
			3	1.50		1.20	5.40		
	Rising of Compound Wall		1	30.00		2.30	69.00		
			1	30.00		2.10	63.00		
			1	12.50		2.30	28.75		
			1	8.40		2.30	19.32		
			1	16.10		2.30	37.03		
			1	2.30		2.10	4.83		
			1	12.30		2.30	28.29		
			1	4.30		2.30	9.89		
			1	3.60		1.20	4.32		
							321.15		
	Deduct for Openings								
	Door		2	0.70		2.10	2.94		
	W		1	0.65		0.45	0.29		
	Lintel		1	9.00		0.20	1.80		
							-5.03		
							316.11	999.58	**315980.00**
	Basic Rate	943.00							
	Area Weightage @ 6%	56.58							
	Total	**999.58**							
10	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16**	Tonne							
	120 Kg / Cum		0.12	4.53			**0.54**	58229.25	**31624.00**
	Basic Rate	54933.25							
	Area Weightage @ 6%	3296.00							
	Total	**58229.25**							
11	KSRB 10-3: Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc, consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75kg/sqm conforming admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment, (b) laying cement concrete using	Sqm							
			1	2.70	3.15		8.51		
			1	6.00	3.70		22.20		
			1	5.30	2.25		11.93		
			1	5.45	4.25		23.16		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							65.79	926.64	**60966.00**
	Basic Rate	858.00							
	Area Weightage @ 8%	68.64							
	Total	**926.64**							
12	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 gaguge M.S hollow pipe frame work bent to ornimental shape as shown in the drawing and 35 mm x 6 mm and 16 x 16mm squate roads for verticals alternatively spaced at 4 cms c/c in two halves and 40 mm x 6mm M.S Flates for horizontal memeber and at the top cast iron spikes are provided at alternate vertical member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc complete all the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (Shop Paint) etc complete the work includes cost of all materials labour charges, for all items of work, hire chargesfor welding cutting and grainding equipment and electtricity charges with lead and lift loading and unloading etc complete as per specficiation **Page No. 42 / Item No. 7.37 PWD SR 2015-16**	Sqm							
			1	4.20		1.80	7.56		
			1	2.40		2.10	5.04		
			1	5.80		1.80	10.44		
							23.04	3299.40	**76018.00**
	Basic rate	3055.00							
	Add 8% AW	244.40							
	Total	**3299.40**							
13	KSRB 15.3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to **ceiling** including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 113 / Item No. 15.21 / PWD SR -2015-16**	Sqm							
	Hall		2	2.05	1.15		4.72		
							4.72	193.98	**915.00**
	Basic Rate	183.00							
	Area Weightage @ 6%	10.98							
	Total	**193.98**							
14	KSRB 15-3.11 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 113 / Item No. 15.19 / PWD SR 2015-16**	Sqm							
	Inside Wall Hall		4	2.05		2.10	17.22		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			4	1.15		2.10	9.66		
	Stage		2	3.00		1.20	7.20		
			2	1.50		1.20	3.60		
							37.68		
	Deductions - For door		1	2.40		2.10	5.04		
	Windows		2	0.90		1.20	2.16		
							7.20		
							2		
							3.60		
							34.08	235.32	**8020.00**
	Basic Rate	222.00							
	Area Weightage @ 6%	13.32							
	Total	**235.32**							
15	KSRB 15.7: Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. **Page No. 114 / Item No. 15.33 / PWD SR 2015-16**	Sqm							
			Qty Vide Item No. 12+13				**38.80**	25.44	**987.00**
	Basic Rate	24.00							
	Area Weightage @ 6%	1.44							
	Total	**25.44**							
16	KSRB 15.3.9: Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 113 / Item No. 15.17 / PWD SR 2015-16 (Outside Wall)**	Sqm							
			2	2.35		2.10	9.87		
			2	2.75		2.10	11.55		
	Rising of Compound Wall		2	30.00		2.50	150.00		
			2	30.00		2.50	150.00		
			2	12.50		2.50	62.50		
			2	8.40		2.50	42.00		
			2	16.10		2.50	80.50		
			2	2.30		2.50	11.50		
			2	12.30		2.50	61.50		
			2	4.30		2.50	21.50		
			2	9.90		1.80	35.64		
							636.56		
	Deductions for Windows D		1	2.40		2.10	5.04		
	W		2	0.90		1.20	2.16		
							7.20		
							2		
							3.60		
							632.96	199.28	**126136.00**
	Basic Rate	188.00							
	Area Weightage @ 6%	11.28							
	Total	**199.28**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
17	KSRB 14.10.2 : Flooring with 25mm to 40mm thick polished **shahabad slabs** using mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications. **Page No. 103 / Item No. 14.16 / PWD SR 2015-16**	Sqm							
	Hall		1	8.65	5.65		48.87		
			2	8.65		0.10	1.73		
			2	5.65		0.10	1.13		
							51.73	1216.88	**62952.00**
	Basic Rate	1148.00							
	Area Weightage @ 6%	68.88							
	Total	**1216.88**							
18	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and **removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm** including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.18 / PWD SR 2015-16**	Sqm							
			2	2.05	1.15		4.72		
							4.72	323.30	**1524.00**
	Basic Rate	305.00							
	Area Weightage @ 6%	18.30							
	Total	**323.30**							
19	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 16 / Item No. 4.34 / PWD SR 2015-16**	Sqm							
	Tie beams		2	9.00		0.45	8.10		
	lintel sides		2	9.00		0.45	8.10		
	Plinth		2	9.00		0.20	3.60		
	For Roof Sides		2	2.35		0.15	0.71		
			2	2.75		0.15	0.83		
							21.33	265.00	**5652.00**
	Basic Rate	250.00							
	Area Weightage @ 6%	15.00							
	Total	**265.00**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
20	KSRB 4-6.6 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **columns**, pillars, piers, post and struts, circular or curved in plan including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 16 / Item No. 4.33 / PWD SR 2015-16**	Sqm							
	Columns		4	1.30	4.95		25.74		
							25.74	896.76	**23083.00**
	Basic Rate	846.00							
	Area Weightage @ 6%	50.76							
	Total	**896.76**							
21	Supply and fixing pressed steel door frames size 125x65 mm manufacture from 1.25mm thick carbon steel or imported steel strips with mitred joints of 900 for door openings and sutters made out of seasoned honne wood, styles of 30mm, thick with lock rail of 160mm, width, top and side rails of 100mm, width width and bottom rails of 250 mm width and panel filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be not proof, vermin proof, heat resistant guaranteed against shrinkage, warpage and such other defects for a period of 3 years, this shall be as per approved drawings, specification and direction including cost of conveyance, manufacturing, painting wit enamel paint 2 coats over primer coat, cost of labour for all items of MD	Sqm							
			1	2.40		2.10	5.04		
							5.04	3710.00	**18698.00**
	Basic Rate	3500.00							
	Area Weightage @ 6%	210.00							
	Total	**3710.00**							
22	Supplying and fixing pressed steel window frame of size 100x50mm manufacture from 1.25 mm thick carbon steel or imported steel strips with neat mitred joints at 900degree for window openings and shall be suitable to fix M.S grills as per design and drawings using 12mm dia roads at 100mm centre to centre horizontally and two members of M.S flats of 6mmx40mm size at 150mm apart, welded into a frame of 6mmx40mm size M.S flats with 16mm size lugs, and 8nos, of 100mm size hinger, 4nos of butt stay pins and 4nos, tower bolts and shutters half paneled and half glazed with shutters made out of seasoned honne wood, styles of 30mm thick and 100 mm width and rails of 30mm thick and 100 mm width and using 4mm thick pin headed glass and panel, filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be rot proof vermin proof, heat resistant guaranteed against shrinkage, warp age and such other defects for a period of 3 years, this shall be as per approved drawinng, specification	Sqm							
	Windows		3	1.20		1.50	5.40		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							5.40	4028.00	**21751.00**
	Basic Rate	3800.00							
	Area Weightage @ 6%	228.00							
	Total	**4028.00**							
23	KSRB 15.14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after througly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. **Page No. 113 / Item No. 15.49.1 / PWD SR 2015-16**	Sqm							
			Qty Vide Item No.14				38.80		
			2	9.15		3.20	58.56		
			2	6.15		3.20	39.36		
							136.72		
			1	2.40		2.10	5.04		
			3	1.50		1.20	5.40		
							10.44		
							2		
							-5.22		
							131.50	69.96	**9199.00**
	Basic Rate	66.00							
	Area Weightage @ 6%	3.96							
	Total	**69.96**							
24	KSRB 15-16.2 : Providing and finishing external walls in two coats with water proof cement paint of approved brand and shade to given an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. **with primer, Page No. 117 / Item No. 15.53.2 / PWD SR 2015-16**	Sqm							
			Qty Vide Item No.15				**632.96**		
			2	9.15		3.20	58.56		
			2	6.15		3.20	39.36		
							730.88		
			1	2.40		2.10	5.04		
			3	1.50		1.20	5.40		
							10.44		
							2		
							-5.22		
							725.66	83.74	**60767.00**
	Basic Rate	79.00							
	Area Weightage @ 6%	4.74							
	Total	**83.74**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
25	KSRB 8.6-5: Providing and fixing in wall surface 2.5 kg/sq.cm H.D.P.E. rain down water pipes 90 mm outer dia approved make and brand with necessary specials like shoes bends and offsets fixed with iron clamps, walls plugs, screws, including cost of materials, labour, complete as per specifications. **Page No. 47 / Item No. 8.16 / PWD SR 2015-16**	M	2	3.00			**6.00**	451.56	**2709.00**
	Basic Rate	426.00							
	Area Weightage @ 6%	25.56							
	Total	**451.56**							
26	KSRRB M3.1: laying reinforced cement concrete pipe NP4 / prestressed concrete pipe for culverts on first class bedding of granular material in double row including fixing collar with cement morta 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications, A.1000 mm dia, **Page No. 246 / Item No. 34.4 PWD SR 2015-16**	M	3	3.00			**9.00**	23586.06	**212275.00**
	Basic Rate	22251.00							
	Area Weightage @ 6%	1335.06							
	Total	**23586.06**							
27	KSRB 13-1.6 : Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 50mm dia nominal bore with fittings (medium grade weight 5.24 kg/mtr) B class including cost of all materials, labour, charges HOM of equipments and testing complete as per specifications. Specification No. KBS 13.2.14 / 13.8 **Page No. 90 / Item No. 13.6 / PWD SR 2015-16**	m	3	5.00			**15.00**	534.24	**8014.00**
	Basic Rate	504.00							
	Area Weightage @ 6%	30.24							
	Total	**534.24**							
28	KSRB 13-1.4 : Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 32mm dia nominal bore with fittings (medium grade weight 3.23 kg/mtr) **Page No. 90 / Item No. 13.4 / PWD SR 2015-16**	m	1	6.00			**6.00**	366.76	**2201.00**
	Basic Rate	346.00							
	Area Weightage @ 6%	20.76							
	Total	**366.76**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
29	KSRB 13-6.2.1: Providing and fixing in position brass stop cock of approved quality 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification NO. KBS 13.2.2 / 13.3 **Page No. 91 / Item No. 13.29 / PWD SR 2015-16**	Each							
			3	4.00			**12.00**	167.48	**2010.00**
	Basic Rate	158.00							
	Area Weightage @ 6%	9.48							
	Total	**167.48**							
	Sub Total								**1375326.00**
	KRIDL Charges @ 8%								**110026.00**
	QC Charges @ 1%								**13753.00**
	Miscesalaneous Charges								**895.00**
								Total	**1500000.00**

(Rupees Fifteen Lakhs Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of PWD 2015-16, PWD Elecrical 2010-11.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 19/9/16
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

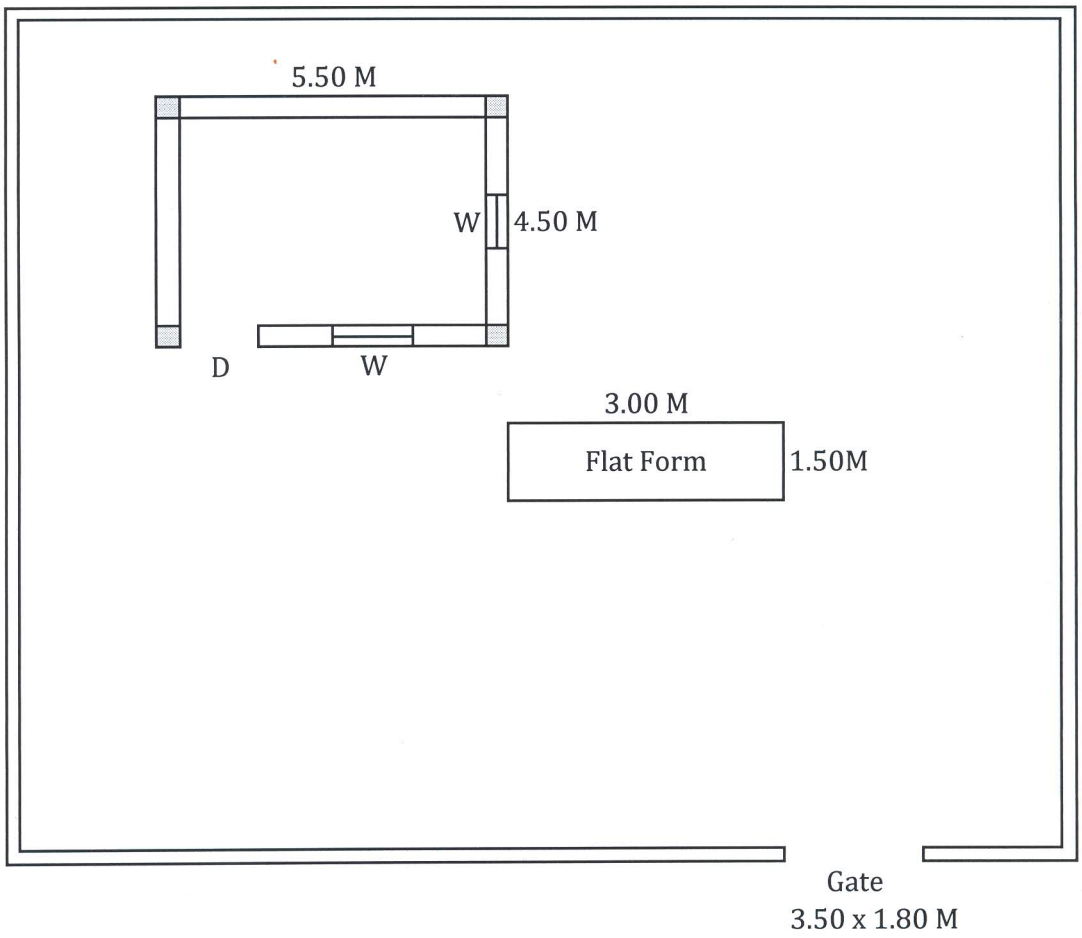
Administrative Approval
Accorded For "15.00" lakhs
Head of A/C..... P2415
CER NO :.....43 Dt : 22/9/16

TA CE (YNK)

TECHNICAL SANCTION
Accorded For Rs..... 15.00L
Head of No..... P-2415
Div. Ref. No. TS/60/15-17 Date 23/09/16.
AE 23/09
EE(BTP) 23/9

Name of Work: Improvements to Varadarajanagara Burial Grounds in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.

(5)



Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division